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HOWARD UNIVERSITY SCHOOL OF MEDICINE

WASHINGTON, D. C.
1920-1921

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HOWARD UNIVERSITY

FIFTY-THIRD ANNUAL ANNOUNCEMENT

OF THE

SCHOOL OF MEDICINE

Including

The Medical, Dental and Pharmaceutical Colleges

FIFTH AND W STREETS, N. W.

WASHINGTON, D. C.

Entered as second class matter at Post Office, Washington, D. C., under Act of Congress of March 16, 1894.

CALENDAR

SEPTEMBER 29, 1920
Wednesday: Examination for advanced standing.

OCTOBER 1
Friday: Opening of the Session; Matriculation.

OCTOBER 12
Tuesday: Last Day of Registration.

NOVEMBER 24 TO 29, INCLUSIVE
Wednesday to Sunday: Thanksgiving Holidays.

DECEMBER 24, 1920, TO JANUARY 3, 1921, INCLUSIVE
Wednesday to Monday: Christmas Holidays.

MAY 16
Monday: Examinations begin.

JUNE 10
Friday: Commencement Day.

THE SCHOOL OF MEDICINE

INCLUDING THE

MEDICAL, DENTAL, AND PHARMACEUTICAL COLLEGES

HISTORY

Howard University was chartered by Act of Congress, March 2, 1867. Section 5 of the charter provided that the University should consist of the following departments—"fifth, medicine." The first session began November 5, 1868, and ended March 1, 1869.

The Department has up to date graduated 1844 students; 1,077 medical, 461 dental, and 306 pharmaceutical. In conformity with the spirit of the charter of the University, the Medical Department, including the Medical, Dental and Pharmaceutical Colleges, is open to all persons, without regard to sex or race, who are qualified by good moral character, proper age and suitable preliminary education.

The fifty-third Annual Session will begin October 1, 1920, and continue until June 1, 1921.

WASHINGTON CITY

This city affords special facilities for the study of medicine and the allied subjects.

There are libraries rich in medical books, which may be consulted by the students. That of the Surgeon General's Office contains over 600,000 works on medicine and collateral sciences. The Library of Congress contains about a million books, many of which are medical. The Patent Office Library also contains many books of the same kind. The reading rooms of these institutions are open from 9 to 4:30 o'clock, daily, except Sundays; those of the Library of Congress are open on Sundays and in the evenings.

Our Carnegie Library, situated on the campus, contains about 25,000 books and 150,000 pamphlets. A branch library has been established at the School of Medicine, where the leading medical, dental and pharmaceutical journals, bulletins, text-books and reference works may be found.

The Army Medical Museum is the finest of its kind in the world. The specimens illustrate the diseases and injuries of both civil and military life, normal anatomy, both human and comparative, and medical, surgical and transportation appliances—in all about 30,000 specimens. Open daily, except Sundays, from 9 to 4:30 o'clock. The National Museum and Smithsonian Institution have the largest and

best collections in the country, illustrating the natural sciences. The specimens of Materia Medica are useful to medical and pharmaceutical students. Open daily, from 9 to 4:30 o'clock. The Museum of Hygiene is under the charge of the Surgeon General of the Navy, and contains, as the name indicates, illustrations of sanitary arts. Open daily except Sundays, from 9 to 4:30 o'clock. The Agricultural Department contains a museum of the products of agriculture; the Botanical Gardens, a collection of plants of all countries, and the Patent Office Museum models of surgical appliances.

GENERAL INFORMATION

FREEDMEN'S HOSPITAL

On the square adjacent to that on which the Medical College Buildings stand have been erected hospital buildings at a cost of $600,000.

The hospital has the advantage of being designed primarily for teaching purposes, as practically all the patients admitted are utilized freely for instruction. The hospital has about 300 beds and contains two clinical amphitheatres, pathologic laboratory, clinical laboratories, and a room for X-ray diagnostic work and X-ray therapy. The Medical Faculty practically constitutes the Hospital Staff. They are the physicians who attend regularly upon the patients (each upon such cases as come within his special department). Special attention is given to bedside instruction. Clinics are held every day during the year, except Sundays, and examinations are made, prescriptions given, and surgical operations performed in the presence of the classes or of sections thereof.

The patients are assigned to students, who take the histories of the cases, make the physical examinations, the diagnosis and prognosis, and suggest the line of treatment or operative procedure thought necessary, under the direction of the professor in charge. The clinical laboratories are under the direction of the departments of internal medicine, surgery, gynecology and nervous diseases. They are all especially equipped and furnish facilities for the scientific study of cases, and are freely used by students. Great stress is laid upon the value of ward and beside instruction. The character of the hospital is such that this method of instruction can be carried out more fully and more systematically than in many other hospitals available for teaching purposes. The practical hospital work which students of this department are able to do is excelled by few medical schools. Much of the work of giving treatment, of dressing wounds and of giving other detailed attention to patients is carried out, under proper supervision, by senior students.

A lying-in ward is established in which senior students are required to attend cases of labor and become familiar with the duties of the lying-in ward, under the immediate direction of the Professor of Obstetrics and his assistants. A large number of the cases admitted to the hospital are from a distance, and are of more than common interest, including numerous surgical and gynecological cases requiring major operations. There are also many cases of diseases of the lungs, heart, blood, digestive system, the kidneys and nervous system. The eye, ear, nose and throat services are large and replete with instructive cases. Patients with contagious diseases are treated in the isolation room of the hospital.

THE MEDICAL SCHOOL

The Medical School is situated on W Street, N. W., between Fifth and Sixth Streets. The LeDroit Park cars pass by the buildings. and the Seventh Street, Ninth Street and U Street lines are within a few blocks, so that in ten minutes a student can reach the heart of the city.

ROOMS AND BOARD

The Secretary keeps a list of places where rooms and board may be obtained at reasonable prices.

INFORMATNON RELATIVE TO THE PRACTICE OF MEDICINE IN THE DISTRICT OF COLUMBIA

1. No person can lawfully practice medicine in the District of Columbia unless licensed to do so by the Board of Medical Supervisors.

2. License for this purpose may be issued either (*a*) after examination, or (*b*) upon the basis of licenses issued by States, Territories, and insular possessions of the United States, and by foreign countries.

ISSUE OF LICENSES AFTER EXAMINATION

3. Examinations are held quarterly, commencing on the second Tuesdays in January, April, July, and October of each year. They continue usually about four days.

4. Applications must be made on forms furnished by the Board of Medical Supervisors. If the applicant is to be examined, his application must be filed with the Secretary of the Board at least two weeks prior to the day set for commencement of the examination which the applicant desires to enter.

5. A fee of ten dollars must accompany each application.

6. Only those who hold the degree of doctor of medicine are admitted to examination. Those who have received such degree before

June 30, 1898, must have studied medicine not less than three years, and those who have received it after that date must have studied not less than four years, before graduation. A diploma conferring such degree must accompany each application.

7. The examination is both written and oral. It includes anatomy, physiology, chemistry, bacteriology, pathology, materia medica and therapeutics, hygiene, histology, practice of medicine, surgery, obstetrics, gynecology, diseases of the eye and ear, medical jurisprudence and such other branches as may be from time to time determined by the Board of Medical Supervisors.

8. Copies of questions which have been used in previous examinations will not be furnished under any circumstances.

9. Persons failing in one examination are permitted to enter any subsequent examination, but a new application must be filed, and a new fee paid, each time.

RULES GOVERNING THE STANDING OF STUDENTS

The marking of students is in accordance with the rules of the Association of American Medical Colleges and is as follows: A, Excellent; B, Good; C, Passed; D, Failed (must take examination over again); E, must repeat the course.

Each student is obliged to attend 80 per cent of the exercises in every course of study for which he seeks credit.

Students must obtain a passing grade in each study in order to receive credit for the same. Students failing in three or more studies in any year will be required to repeat the work of that year, or, by vote of the Faculty, may be advised to terminate their connection with the school. Students, except seniors, failing in less than three studies in any one year will be allowed a re-examination in such studies. Students failing in not more than two studies may be conditioned in such studies, but said conditions must be removed during the first half of the ensuing year. Senior students who fail in any subject must repeat the work of the entire year. The work of making up conditions must be done outside of the regular scheduled hours.

A student whose work, for any reason, is not satisfactory, will be so notified, and if no improvement is noted he must expect to be asked to terminate his connection with the school.

The same principle will apply to candidates for graduation. The only standard of graduation will be the judgment of the faculty that the candidate for graduation is qualified for the degree of doctor of medicine, dentistry or pharmaceutical chemist.

CLINICS AND PRACTICAL WORK

Clinics are held as indicated in the schedule of hours.

Seniors and juniors are required to attend these clinics, and their

attendance and proper performance of the required practical work will enter largely in determining their promotion or graduation.

Dental and pharmaceutical students must also attend the practical work of the Dental Infirmary and Hospital Dispensary, respectively, as well as the laboratory work in their respective Colleges.

POST-MORTEMS

Post-mortem examinations will be made as often as possible, and students will be required to attend and assist. This will afford an excellent opportunity for the study of both normal and morbid anatomy, as well as the steps of the operation itself.

STUDENTS' FEES

The fees and cost of books, instruments, board, room, laundry and incidentals will hardly be less than $400 per session of thirty-two weeks.

Examination fee for all new students	$5.00
Matriculation, paid once by new students only	5.00
Tuition, Medical College, per session	125.00
Laboratory fee	25.00
Tuition, Dental College, per session	100.00
Laboratory fee	25.00
Tuition, Pharmaceutic College, per session	80.00
Laboratory fee	20.00
Graduation fee	7.00
Library and Athletic fees, each year	5.00

A laboratory deposit will be required for breakage, and must be paid before the student is admitted to the laboratory. This will be returned at the end of the session if there is no destruction of property beyond normal breakage.

All fees, except the Examiner's fee, which must accompany the application and be sent to the secretary of the School of Medicine, are paid to the Treasurer of the University and are payable, half on registration and half on the first of the following January.

Fees must be paid before a student is admitted to his classes.

LECTURES AND RECITATIONS

Instruction is given in this school by didactic and clinical lectures, recitations and practical laboratory and beside work. Students are not permitted to absent themselves from lectures, recitations laboratory work, clinical lectures and other practical exercises. The instructors keep a record of attendance and report to the Secretary of the Faculty at stated intervals.

Examinations will be held in the several subjects at such times as the professors may determine, and at the close of the session. Any student failing to pass examinations after three attempts in any

subject will be advised to discontinue his connection with the school. Absence from one-fifth or more of a course will render a student ineligible for examination.

INCOME OF MEDICAL COLLEGE OF HOWARD UNIVERSITY FOR SESSION 1918-1919

Students' Fees	$15,070.08
Endowment	750.00
Government	3,000.00
	$18,820.08

EXPENSES OF MEDICAL COLLEGE OF HOWARD UNIVERSITY FOR SESSION 1918-1919

Compensation of Professors and Instructors	$18,153.00
Administration	1,500.00
Commencement and Diplomas	73.50
Advertising	130.00
Gas	32.48
Janitors	745.00
Laboratories	3,274.67
Miscellaneous	536.98
Printing	200.00
Telephone	100.00
	$24,745.63
Deficit	$5,925.55

SPECIAL NOTICES

Article III, Section 1, Constitution of the Association of American Medical Colleges.—"Every college holding membership in this Association shall, on and after January 1, 1912, require for matriculation a complete or unconditioned medical student's certificate, to be granted by a state Medical Examining and Licensing Board, or a Board empowered by statute to grant such certificates."

Prospective Medical students will do well to remember the above requirements and secure their medical certificates before coming to the Medical College.

The Medical College of Howard University is now recognized by the Conjoint Board of England, and its "graduates are admitted to the final examinations of the Board of Medicine, Surgery, and Midwifery on production of evidence of having fulfilled the necessary regulations in regard to general education, and to the professional curriculum extending over five years."

There are no funds available for helping students in the School of Medicine. The faculty advises prospective students not to come to the school until they are able to pay their tuition in full, without having to depend upon outside employment, as the successful study of medicine, dentistry or pharmacy can be pursued only by those who devote all of their energy to this work.

Prospective Medical, Dental or Pharmaceutical students will save time and the possibility of miscarriage of their mail if their letters of inquiry are directed to the Dean or Secretary of the School of Medicine, Fifth and W Streets, N. W., Washington, D. C.

Beginning with the session 1920-1921, the Dental Colleges will require for admission the completion of one year's college work in Biology, 192 hours; Chemistry, 192 hours; Drawing, 64 hours; English, 96 hours; Physics, 192 hours.

Owing to the fact that the facilities of this School for teaching are limited, it reserves the right to limit the number to be admitted to any of the classes of the School. Only one hundred first year dental students will be admitted. *Early application, especially on the part of those desiring to study Dentistry, is therefore advisable.*

THE MEDICAL COLLEGE

FACULTY

REV. J. STANLEY DURKEE, A. M., Ph. D.,
President of the University.

EDWARD A. BALLOCH, A. M., M. D., Dean,
Professor of the Principles and Practice of Surgery and Clinical Surgery and Head of Department of Surgery.

DANIEL S. LAMB, A. M., M. D., LL D., Vice Dean,
Professor of Anatomy and Head of Deparment of Anatomy.

WILLIAM C. McNEILL, M. D., Secretary,
Professor of Gynecology and Head of Department of Gynecology.

NEIL F. GRAHAM, M. D., LL. D.,
Emeritus Professor of the Principles and Practice of Surgery.

CHARLES B. PURVIS, A. M., M. D., LL. D.,
Emeritus Professor of Obstetrics and Gynecology.

WALTER W. ALLEGER, M. D., Phar. D.,
Emeritus Professor of Bacteriology.

COLLINS MARSHALL, M. D.,
Professor of Pathology and Clinical Microscopy and Head of Department of Pathology.

PAUL BARTSCH, M. S., Ph. D.,
Professor of Histology and Embryology and Head of Department of Histology.

JOHN W. MITCHELL, M. D., Phar. D.,
Professor of Materia Medica and Therapeutics and Head of Department of Materia Medica and Therapeutics.

HENRY P. PARKER, A. B., M. D.,
Professor of the Principles and Practice of Medicine and Head of the Department of Medicine.

ERNEST E. JUST, A. B., Ph. D.,
Professor of Physiology and Head of Department of Physiology.

EDWARD D. WILLISTON, A. B., M. D.,
Professor of Obstetrics and Head of Department of Obstetrics.

EUGENE R. WHITMORE, A. M., M. D.
Professor of Bacteriology, Parasitology, Serology, etc.

WILLIAM A. WARFIELD, M. D.,
Professor of Abdominal Surgery; Surgeon in Charge of Freedmen's Hospital.

WILLIAM G. ERVING, A. B., M. D.,

Professor of Orthopedic Surgery.
HARRY A. FOWLER, S. B., M. D.,
Professor of Genito-Urinary Diseases.
HENRY H. HAZEN, A. B., M. D.,
Professor of Dermatology.
CHARLES I. WEST, M. D.,
Associate Professor of Anatomy.
AUSTIN M. CURTIS, A. M., M. D.,
Associate Professor of Surgery.
ALBERT RIDGELEY, M. D.,
Demonstrator in charge of Practical Anatomy and Associate Professor of Anatomy.
CARYL BURBANK, M. D.,
Assistant Professor of the Principles and Practice of Medicine.
HERBERT C. SCURLOCK, A. M., M. D.,
Professor of Physiological Chemistry and Roentgenology.
TOM A. WILLIAMS, M. B., C. M.,
Lecturer on Nervous and Mental Diseases.
BENONI PRICE HURST, A. B., M. D.,
Assistant Professor of Pharmacology.
———————,
Lecturer on Anaesthesia.
EDGAR P. COPELAND, M. D.,
Lecturer on Pediatrics and Clinical Pediatrics.
JAMES C. DOWLING, M. D.,
Clinical Instructor in Ophthalmology.
HAMILTON S. H. MARTIN, M. D.,
Clinical Instructor in Otology, Laryngology and Rhinology.
WILLIAM A. JACK, M. D.,
Demonstrator of Practical Surgery.
CHARLES H. MARSHALL, M. D.,
Clinical Assistant in Gynecology.
MILTON A. FRANCIS, M. D.,
Clinical Assistant in Surgery.
LEWIS C. ECKER, M. D.,
Clinical Assistant in Medicine.
ANNA BARTSCH-DUNNE, M. D.,
Assistant in Histology.
WILLARD MERCER LANE, A. B., M. D.,
Clinical Instructor in Surgery.
ELMER CLAYTON TERRY, A. B., M. D.
Assistant in Medicine.
PETER M. MURRAY, M. D.,
Clinical Assistant in Surgery.

PORTER B. LENNOX, A. B., M. D.,
Assistant Professor of Pathology.
WILLIAM C. WOODWARD, LL. D., M. D.,
Lecturer on Medical Jurisprudence.
ARTHUR B. McKINNEY, M. D.,
Assitant in Clinical Surgery.
CORNELIUS J. YOUNG, A. B., M. D.,
Clinical Assistant in Gynecology.
FRANK L. EICHENLAUB, M. D.,
Clinical Assistant in Dermatology.
JOHN A. TOLBERT, M. D.,
Clinical Assistant in Orthopedics.
H. N. DORMAN, M. D.,
Clinical Assistant in Genito-Urinary Diseases.
JULIAN W. ROSS, A. B., M. D.,
Clinical Assistant in Gynecology.
ELIZABETH G. MITCHELL, A. B., M. D.,
Assistant in Nervous and Mental Diseases.

REQUIREMENTS FOR ADMISSION TO HOWARD UNIVERSITY MEDICAL COLLEGE

An applicant for admission to the Medical College of Howard University must present to the Secretary of the Faculty of the College at least ten days before the opening of the College his credentials, properly signed, showing that he has successfully pursued the study of the subjects mentioned below, under the conditions stated:

(A) Certificate of graduation from an accredited or standard high school covering work equivalent to 15 units.

(B) Certificate of having completed in a college of satisfactory standing at least 60 semester hours of pre-medical work. The following subjects must be included:

1. 16 semester hours in chemistry as follows:
   (a) 8 semester hours in general inorganic chemistry, of which 4 must consist of laboratory work.
   (b) 4 semester hours in analytic chemistry, of which 2 must consist of laboratory work.
   (c) 4 semester hours in organic chemistry, of which 2 must consist of laboratory work.
2. 12 semester hours in zoology, of which 6 must consist of laboratory work. The structure, functions, and life history of selected types of animals are required and these must include at least a half year each of comparative anatomy of vertebrates and of general embryology.

3. 10 semester hours in general physics, of which 4 must consist of laboratory work. Subjects required—mechanics, heat, sound, electricity, and light.
4. 8 semester hours in English composition and literature.
5. 8 semester hours in a modern foreign language. French, Spanish or German: One unit of high school work may be counted as two semester hours of this requirement, but there shall be at least 6 semester hours of collegiate work in one language.
6. 6 semester hours in mathematics—college algebra, and plane trigonometry.

Psychology is among the subjects recommended to be included among the electives presented in satisfaction of the remainder of the requirements.

No conditions are allowed in any of the admission requirements.

APPLICATION BLANKS

APPLICATION FOR ADMISSION SHOULD BE MADE TO THE SECRETARY WHO WILL FURNISH A BLANK QUESTIONAIRE WHICH WHEN FILLED OUT WILL GIVE A COMPLETE STATEMENT COVERING THE STUDIES COMPLETED BY THE APPLICANT.

CERTIFICATES

APPLICANTS ARE REQUIRED TO FURNISH DETAILED CERTIFICATES FROM OFFICERS OF THE COLLEGES OR SCIENTIFIC SCHOOLS AT WHICH THEY HAVE STUDIED COVERING THE COURSES IN BIOLOGY, CHEMISTRY AND PHYSICS.

COMBINATION COURSES

Students in the College of Arts and Sciences of Howard University, desiring to enter upon professional studies before graduation from that college, who have completed not less than 99 units, may register for freshman work in the Medical college, provided they can satisfy the stated entrance requirements, and may receive the degree of A. B. or B. S. upon the satisfactory completion of the first year's work.

For additional information, apply to the Secretary of the Medical Faculty, W. C. McNeill, M. D.

CREDIT FOR WORK IN ACCREDITED MEDICAL COLLEGES

It is considered desirable for students to complete their course in medicine at the institution at which they first matriculate. If, however, for any good reason, a change is desired, a student from

another medical college recognized by this institution may be admitted to advanced standing under the following conditions:

First: He must present a letter of honorable dismissal from the school he attended, showing that he was in good standing and that all his bills were paid.

Second: He must present satisfactory evidence that he has, at the time he enters this College, fully completed the preliminary educational requirements for admission to the school.

Third: He must present satisfactory evidence from the college attended showing that the amount and character of work he has completed is such as to entitle him to the advanced standing he seeks in this College.

Credit may be given to the holder of a Bachelor's Degree from an approved college or university for any work in the medical branches which he has successfully completed in his college course, only so far as it is full equivalent of corresponding work in the medical curriculum. The holder of such Bachelor's Degree may also be given time credits not exceeding one year, provided that such student has had the required number of hours in physics and chemistry, 24 hours in osteology, 292 hours in human or comparative anatomy, 124 hours in histology, 85 hours in embryology, 200 hours in physiology and 90 hours in materia medica; provided, that the applicant for such time credits satisfies the professors of the chairs mentioned in the Medical School as to his proficiency in these first year medical studies. Such students may be allowed to complete a course for the medical degree in not less than 30 months, provided they complete the remainder of the medical curriculum in that time.

CURRICULUM

The curriculum comprises Anatomy, Histology, Embryology, Materia Medica, Physiology, Physiologic Chemistry, Pharmacology, Toxicology, Urinalysis, Bacteriology, Dietetics, Electro-Therapeutics, Hygiene, Medical Zoology, Pathology, Therapeutics, Clinical Microscopy, Dermatology, Minor Surgery, Obstetrics, Ophthalmology, Orthopedics, Pediatrics, Physical Diagnosis, Practice of Medicine, Surgery, Anaesthetics, Genito-Urinary Diseases, Gynecology, Laryngology, Otology, Rhinology, Medical Jurisprudence, Mental and Nervous Diseases, Tropical Medicine, and Post-Mortem Work.

GRADUATION

Candidates for the degree of Doctor of Medicine shall be at least 21 years of age and of good moral character, and shall have attended four courses of lectures, etc., above described, at some regular medi-

cal college, the Senior course at least being at this College. They shall pass the final examination, and shall have paid their fees in full.

DEPARTMENTS OF THE COLLEGE OF MEDICINE

DEPARTMENT OF ANATOMY

DANIEL S. LAMB, A. M., M. D., LL. D.
Professor and Head of Department.
CHARLES I. WEST, M. D.
Associate Professor of Anatomy, Demonstrator of Anatomy.
ALBERT RIDGELEY, M. D.
Associate Professor of Anatomy, Demonstrator of Anatomy.

General Statement

The laboratories for gross anatomy comprise two dissecting rooms and smaller rooms for embalming, storing, and prosecting. The equipment includes apparatus for embalming, sectioning, macerating, corroding, and digesting: drawing apparatus, chemicals, and glassware. The museum contains special dissections, osteological preparations and models; charts, lantern slides, and other teaching accessories. The Library is readily accessible and makes it possible to consult much anatomical, zoological, and biological literature.

1 and 2. Systematic Anatomy.—The complete dissection of the human body. The structures are studied in the following sequence: (1) Upper and lower extremities, (2) thorax and abdomen, (3) the head and neck. Emphasis is laid on systematization of the laboratory observations and understanding of functional and topographical relationships. Discussion and demonstrations direct attention to structural variation and to developmental and practical aspects of the subject.

First and Second Years.

First year:	Lectures and recitations	108 hours
	Laboratory	308 hours
Second year:	Lectures and recitations	64 hours
	Laboratory	198 hours

Professor Lamb, Drs. Ridgeley and West.

3. Topographical Anatomy.—The topography and relations of the various regions, systems, and organs of the body. The work is done largely on serial sections of formalin hardened bodies. The sections are studied and drawn. The organs then are reconstructed by projection. The purpose of this work is to lay a foundation for the orientation of the various organs in the living body.

Second Year, Second Semester

Recitations ----------32 hours
Laboratory ----------90 hours

Dr. West.

DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY

PAUL BARTSCH, M. S., Ph. D.
Professor and Head of Department.
ANNA BARTSCH DUNNE, M. D.
Assistant.

The histologic laboratories are located on the second floor of the Medical Building. They are well equipped with ovens, microtomes, microscopes, glassware, and reagents.

Cytology, Histology and Microscopic Anatomy.—A review of the simplest animal cells, followed by a detailed study of modified cells, such as are found in blood and lymph, epithelial, connective, muscular and nervous tissues. This is followed by an intensive study of the microscopic structure of all the organs of the body.

In connection with this work the student is taught histologic technique and is required to prepare a set of slides covering the principal organs.

First Year, First Semester

Recitation and lectures ----------60 hours
Laboratory ----------120 hours

4. Embryology.—Ovogenesis and spermatogenesis, maturation, ovulation and its relation to menstruation, fertilization, segmentation, gastrulation, formation and significance of germinal layers; the formation of the foetal envelopes and the placenta; the beginning of organs and systems of organs. Throughout the course emphasis is laid on congenital malformations and their causes.

First Year, Second Semester

Lectures and recitations ----------33 hours
Laboratory ----------66 hours

DEPARTMENT OF PHYSIOLOGY

ERNEST E. JUST, A. B., Ph. D.
Professor and Head of Department.

The course in physiology comprises lectures, demonstrations, recitations and experimental work. Four hours of lectures or recitations and ten hours of laboratory work the week.

The arrangement of the course is as follows:

1. Physiology of Muscle and Nerve. Lectures, recitations, demonstrations, and laboratory.

2. Physiology of Blood, Circulation and Respiration. Lectures, recitations, demonstrations, and laboratory.
3. Physiology of Digestion, Secretion and Nutrition. Recitations and demonstrations and laboratory.
4. Physiology of the Central Nervous system and of the Special Senses. Recitations, demonstrations, and laboratory.
5. Special Physiology of Nutrition. Lectures and special readings.

First Year, Second Semester.
Second Year, First Semester.
Lectures and recitations ----------96 hours
Laboratory ----------192 hours

PHYSIOLOGICAL CHEMISTRY

HERBERT C. SCURLOCK, A. M., M. D. AND ASSISTANT
Professor and Director of Physiological Laboratory.

The lectures in this course consist of a brief discussion of the theories of chemical constitution and a survey of those classes of chemical substances which are to be found in animals and plants, and of the general principles and more important facts of physiological chemistry.

The laboratory practice is designed to acquaint the student with some of the more important constituents of living matter and their chemical behavior, and with some of the routine methods of biochemical investigation.

First Year, First Semester.
Lectures and recitations ----------60 hours
Laboratory ----------180 hours

DEPARTMENT OF PATHOLOGY

COLLINS MARSHALL, M. D.
Professor and Head of Department.
P. B. LENNOX, M. D.
Assistant Professor.

1. General Pathology and Pathological Histology. A practical laboratory course in general Pathologic Histology.

Second Year, Second Semester
Lectures and recitations ----------60 hours
Laboratory ----------120 hours

2. Special Pathology. Study of the Pathological changes affecting different organs and tissues.

Third Year, First Semester.
Lectures and recitations ----------60 hours
Laboratory ----------120 hours

3. Gross Pathology. This course is given to both Junior and Senior students, and consists of identification and study of diseased parts with the naked eye, and the various microscopic staining and other reactions.

The technique of making autopsies is taught by demonstrations, and opportunity is afforded the students to assist in the performance of the work.

4. Clinical Microscopy and Laboratory diagnosis _____120 hours

DEPARTMENT OF PREVENTIVE MEDICINE AND HYGIENE INCLUDING BACTERIOLOGY, PARASITOLOGY, SEROLOGY, ETC.

EUGENE R. WHITMORE, B. S., M. D.

Professor.

The course in Preventive Medicine and Hygiene consists of lectures, demonstrations and laboratory work. The laboratory work includes the bacteriological and chemical analysis of water and milk, the determination of a carbonic coefficient, testing fumigants, chemical and physical examination of the air, statistical methods, etc.

Second Year, Second Semester.

Lectures and demonstrations _____60 hours

Laboratory _____30 hours

Lectures deal with the morphology and biology of bacteria in general and with infection, immunity, and the specific infectious diseases. In the laboratory students make up bacteriologic media, study some of the more important groups of non-pathogenic and pathogenic bacteria, keep daily records of the biologic changes in cultures under observation, examine water, sewage, pus, saliva etc., conduct postmortems on infected animals and isolate and identify bacteria in mixtures.

Second Year, First Semester.

Lectures and recitations _____60 hours

Laboratory _____120 hours

MEDICAL ZOOLOGY

In this course the animal parasites of man and their relation to disease are considered. Where possible, living or prepared specimens are used to supplement the illustrated lectures. Chief emphasis is laid upon the parasitic Protozoa, Platyhelminthes and Nemathelminthes; these and such insects as serve as carriers or intermediate hosts for them. A consideration of snakes and their venom, concludes the course.

Second Year First Semester.

Lectures and Demonstrations with prepared specimens 32 hours.

DEPARTMENT OF PHARMACOLOGY, MATERIA MEDICA AND PHARMACY.

JOHN W. MITCHELL, Phar. D., M. D.
Professor and Head of Department.
BENONI PRICE HURST, A. B., M. D.
Assistant Professor of Pharmacology.

1. *Materia Medica, Toxicology and Pharmacy.*—This course covers the fundamentals of Materia Medica, Toxicology, and Pharmacy.

First Year, Second Semester.
Lectures and recitations ----------60 hours
Laboratory ----------72 hours

2. *Pharmacology.*—This course treats of the modification of the normal physiological processes of the body by the presence of the more common drugs used in medicine. Special stress is laid on the point and mechanism of action.

Second Year, Second Semester.
Lectures and recitations ----------60 hours
Laboratory ----------72 hours

DEPARTMENT OF MEDICINE

HENRY P. PARKER, A. B., M. D.
Professor and Head of the Department.
CARYL BURBANK, M. D.
Assistant Professor of Medicine.
HENRY H. HAZEN, A. B., M. D.
Professor of Dermatology and Director of Tuberculosis Dispensary
LEWIS C. ECKER, M. D.
Clinical Assistant in Medicine.
ELMER CLAYTON TERRY, A. B., M. D.
Assistant in Medicine.

The course in Medicine is in part practical and in part didactic; however, great stress is laid on the practical side.

The didactic course consists of four recitations for Juniors, and two recitations for Seniors, with a weekly amphitheatre clinic for the session, the subjects being so arranged that the two years' course taken by both classes covers all the important medical diseases.

The practical work, in the Junior year, consists of three exercises a week in the dispensary of Freedmen's Hospital, where the out patients and suitable patients from the hospital wards are used for demonstration. In this course students are thoroughly taught the methods of examination and history taking; *the plan of training being to give the students the ability to bring out and recognize* the important symptoms and physical signs for themselves.

The practical instruction in the Senior year is given in the wards of the hospital. The class is divided into small groups. Students are required to take the patients' records, make examinations, if the patients' conditions permit, and make the laboratory examination of sputum, blood, urine, etc. On four days a week ward rounds are made by the Professor and his Assistants. Once a week the Professor meets the class in the amphitheatre and there presents cases suitable for clinical lectures.

1. Physical Diagnosis. Lectures and Practical drill on normal subjects; given to small sections of the class.

Second Year, Second Semester.

Lectures ----------30 hours
Practical drill ----------30 hours

2. Practice. Infectious diseases; the intoxications; diseases of metabolism and the ductless glands.

Junior Year

Lectures and recitations ----------120 hours
Clinic ----------190 hours

3. Physical Diagnosis Clinic.

Junior Year

4. Laboratory Diagnosis. See under Department of Pathology. Clinic Dispensary. Practical work on out patients.

Junior Year

Practice. Diseases of ailmentary tract, liver, pancreas and peritoneum; diseases of heart and lungs. Diseases of the kidney and blood with review course in selected subjects.

Senior Year

Lectures and recitations ----------90 hours
Clinics ----------240 hours

PEDIATRICS

EDGAR P. COPELAND, M. D.
Lecturer.

1. Nutrition and nutritional disturbances in infancy.
2. Physical diagnosis and demonstrations.
3. Clinics and lectures. Selected cases.

Juniors, First Semester

Lectures and recitations ----------48 hours

Seniors, Second Semester

Clinic ----------96 hours

NERVOUS AND MENTAL DISEASES

TOM A. WILLIAMS, M. B., C. M.
Lecturer.
ELIZABETH G. MITCHELL, B. S., M. D.
Assistant.

Lectures embrace systematic instruction in mental diseases. In the clinic, cases are allotted to the students in pairs.

Senuior Year

Lectures and recitations ----------48 hours
Clinic ---------- 96 hours

DERMATOLOGY AND SYPHILOLOGY

HENRY H. HAZEN, A. B., M. D.,
Professor.
FRANK L. EICHENLAUB, M. D.
Clinical Assistant.

Lectures, recitations and clinics. In the clinic, cases are assigned to small sections of the class. The students are expected to make the diagnosis and suggest treatment. The cases are then fully considered by the professor who makes corrections in the students' reports where needed.

Junior Year, First Semester.

Lectures and recitations ----------36 hours
Clinics ----------36 hours

MEDICAL JURISPRUDENCE

WILLIAM C. WOODWARD, M. D.

The course in Medical Jurisprudence consists of a series of lectures and reference to standard authorities. The aim is to give the student a clear understanding of his legal rights and duties as a medical practitioner, and of the general bearing of medical knowledge upon legal problems, which a doctor may be called upon to assist in solving.

Junior Year, Second Semester.

Lectures ----------18 hours
Dr. Williston.

DEPARTMENT OF SURGERY

EDWARD A. BALLOCH, A. M., M. D.
Professor and Head of Department.
AUSTIN M. CURTIS, A. M., M. D.
Associate Professor.
WILLIAM A. WARFIELD, M. D.
Professor of Abdominal Surgery and Surgeon-in-charge of Freedmen's Hospital.

WILLIAM A. JACK, M. D.
Demonstrator of Practical Surgery.
H. ATWOOD FOWLER, S. B., M. D.
Professor of Genito-Urinary Diseases.
WILLARD MERCER LANE, A. B., M. D.
Clinical Instructor in Surgery.
ARTHUR B. McKINNEY, M. D.
Assistant in Surgery.
MILTON A. FRANCIS, M. D.
Instructor in Clinical Surgery.
PETER M. MURRAY, M. D.
Instructor in Clinical Surgery.

The subject of surgery is taught by didactic lectures, clinical lectures and operative clinics. Special stress is laid upon surgical pathology. Fourth year students are brought into contact with practical surgery by means of ward work and as assistants at operations. Surgical diagnosis and the writing of case histories are taught in the hospital wards. In the minor surgery clinics, students are taught the principles of aseptic surgery and operative technique. The course in operative surgery is illustrated by suitable material. Every effort is made to give each student a thorough knowledge of modern surgery, theoretic and practical.

Second Year.

1. (a) Minor Surgery.
   (b) Surgical Pathology.
   (c) Clinical anatomy.
2. (a) Principles of Surgery.
   (b) Bandaging, Surgical Dressing and Surgical appliances.

Lectures and recitations ----------60 hours

Junior Year.

Lectures and recitations ----------60 hours
Clinic ----------132 hours

3. Surgery of the head, neck, throat, stomach, intestines, liver, pancreas and spleen; hernia and post-operative treatment; the surgical diseases of the bones and joints.

Senior Year.

Lectures and recitations ----------60 hours
Clinic ----------160 hours

ORTHOPEDIC SURGERY

WILLIAM G. ERVING, A. B., M. D.
Professor.
JOHN A. TOLBERT, M. D.,
Clinical Assistant.

It will be the aim of the department to teach as fully as the material to be obtained from the clinics and wards will permit by bringing the student in close contact with the actual cases. Every effort will be made to emphasize practical diagnosis and treatment of the affections included under orthopedic surgery. These will be demonstrated in the wards, clinics and operating room.

Junior Year, Second Semester

Lectures and recitations ----------30 hours
Clinic ----------60 hours

GENITO-URINARY DISEASES

H. ATWOOD FOWLER, S. B., M. D.,
Professor.
H. N. DORMAN, M. D.,
Clinical Assistant.

The work in genito-urinary surgery is chiefly clinical, and the student learns by actual contact with the cases. The hospital supplies abundant material for these courses. Whenever necessary the clinical demonstrations in the branches are supplemented by didactic lectures.

Senior Year, First Semester

Lectures ----------30 hours
Clinic ----------30 hours

OPHTHALMOLOGY

JAMES C. DOWLING, M. D.
Lecturer and Director of Ophthalmologic Clinic, and Assistants

1. Lectures.
2. Clinic. Common diseases of the eye and such minor operations as the general practitioner may be expected to perform.
3. Clinic—Dispensary. Diagnosis and treatment of the common diseases of the eye.

Juniors, First Semester

Lectures ----------18 hours
Seniors, Second Semester
Clinic ----------36 hours

OTOLOGY, LARYNGOLOGY AND RHINOLOGY

HAMILTON S. H. MARTIN, M. D.
Lecturer.

Special anatomy and physiology of the upper respiratory tract; the etiology and pathology of the affections of the ear, nose and throat, and a description of the more common diseases of these organs, their diagnosis and treatment.

Juniors, First Semester

Lectures ----------18 hours

Seniors, Second Semester

Clinic ----------36 hours

ROENTGENOLOGY

HERBERT C. SCURLOCK, A. M., M. D.

Lecturer.

Lectures and Demonstrations. The use of the X-ray in medicine and surgery.

Second Year, First Semester

Lectures ----------18 hours

Demonstrations ----------18 hours

DEPARTMENT OF OBSTETRICS

EDWARD D. WILLISTON, A. M., M. D.

Professor and Head of Department, and Assistants

Lectures, quizzes and clinical instruction in the wards of Freedmen's Hospital closely followed by careful clinical instruction in pelvimetry, vaginal examinations, palpation, and in all antepartum and postpartum conditions, both normal and abnormal.

Senior Students are required to attend at least 12 obstetric cases, and when sufficiently instructed will be required to deliver, under the supervision of the Demonstrator, as many cases as possible.

Junior Year, Second Semester

Lectures ----------60 hours

Clinic ----------96 hours

DEPARTMENT OF GYNECOLOGY

WILLIAM C. McNEILL, M. D.

Professor and Head of Department.

CHARLES HERBERT MARSHALL, M. D.

Assistant in Gynecology.

CLAUDIUS I. YOUNG, A. B., M. D.

JULIAN W. ROSS, A. B., M. D.,

Clinical Assistants in Gynecology.

Free use is made of charts, models, lantern slides and specimens to demonstrate diseases and operations.

The class is divided into sections, which attend clinics. These sections see all cases with the professor or his assistants before any plan of treatment is instituted.

Senior Year.

Lectures ----------60 hours

Clinics ----------120 hours

THE DENTAL COLLEGE

(This college is a member of the National Association of Dental Faculties.)

FACULTY

REV. J. STANLEY DURKEE, A. M., Ph. D.
President of the University.
EDWARD A. BALLOCH, A. M., M. D., Dean
Professor of Oral Surgery.
ANDREW J. BROWN, D. D. S., Vice-Dean, Dental College
Professor of Operative Dentistry and Operating Technic.
W. C. McNEILL, M. D., Secretary.

CLARENCE H. HOWLAND, D. D. S.
Emeritus Professor of Dental Anatomy and Pathology.

H. PORTER DAVIS, D. D. S.
Professor of Prosthetic Dentistry, Dental Metallurgy and Prosthetic Technic.
FRED P. BARRIER, D. D. S.
Superintendent Dental Infirmary and Lecturer on Dental Anatomy
RAYMOND B. THOMAS, D. D. S.
Demonstrator in Dental Infirmary
THOMAS W. EDWARDS, D. D. S.
Demonstrator in Dental Infirmary.
HERBERT C. HOPKINS, D. D. S.
Lecturer on Orthodontia.
ADOLPHUS WALTON, D. D. S.
Lecturer on Crown and Bridge Work.
JOSEPH C. BROZIER, D. D. S.
Demonstrator.
MELANCHTHON J. D. WISEMAN, D. D. S.
Demonstrator.

DANIEL S. LAMB, A. M., M. D., LL. D.
Professor of Anatomy.
COLLINS MARSHALL, M. D.
Professor of Pathology.
PAUL BARTSCH, M. S., Ph. D.
Professor of Histology and Physiologic Chemistry.
EUGENE R. WHITMORE, B. G., M. D.
Professor of Bacteriology.

JOHN W. MITCHELL, M. D., Phar. D.
Professor of Materia Medica and Therapeutics

ERNEST E. JUST, A. B., Ph. D.
Professor of Physiology.

CHARLES I. WEST, M. D.
Associate Professor of Anatomy.

ALBERT RIDGELEY, M. D.
Demonstrator and Associate Professor in Charge of Practical Anatomy.

EDWARD D. WILLISTON, A. M., M. D.
Lecturer on Dental Jurisprudence.

ARTHUR L. CURTIS, M. D.
Lecturer on Physical Diagnosis and Anaesthesia.

REQUIREMENTS FOR ADMISSION TO THE DENTAL COLLEGE

A candidate may be admitted to the Dental College upon presenting a diploma or equivalent certificate from an accredited high school or kindred educational institution, or upon passing a satisfactory examination. The diploma must be signed by a superintendent of schools or the principal of a high school, or other responsible school officer, and must be accompanied by a statement giving in detail the course of study pursued in each year, together with the number of weeks and the hours per week. This statement must be signed and sealed by the principal of the school which the applicant attended. A certificate showing that a candidate has been graduated from an accredited high school, or from a school giving an equivalent course, signed by a city or county superintendent of schools, or by a State superintendent of public instruction, will be accepted as the equivalent of a diploma. A candidate who does not present a diploma or certificate must take an examination before the State Superintendent of public instruction, or his deputy, and bring a report showing that he has a preliminary education equivalent to that to be obtained in an accredited high school.

This school will receive no student in its regular course who is not present within ten days after the opening day of the session in each year, or, in case of necessary delay, by reason of illness properly certified by the attending physician, within twenty days after the opening day, at the option of the Faculty.

Students registering agree thereby to accept the discipline imposed by the Faculty.

It is desirable that students register early.

HIGH SCHOOL COURSE REQUIRED

BEGINNING WITH THE SESSION 1920-1921, THE DENTAL COLLEGES WILL REQUIRE FOR ADMISSION THE COMPLETION OF ONE YEAR'S COLLEGE WORK IN BIOLOGY, 192 HOURS; CHEMISTRY, 192 HOURS; DRAWING, 64 HOURS; ENGLISH, 96 HOURS; PHYSICS, 192 HOURS.

ONLY ONE HUNDRED (100) STUDENTS WILL BE ADMITTED TO FIRST YEAR CLASS.

FIRST YEAR

Subject	*Periods*
English	152
Algebra	190
Biology	190
Drawing	76
Manual Training	38
Elective	
Vocal Music	38

SECOND YEAR

Subject	*Periods*
English	114
Geometry, pl.	190
Latin	190
Drawing	76
Manual Training	38
Elective	
Physical Geog. or 2nd foreign lang.	190
Ancient History	114
Vocal Music	38

THIRD YEAR

English	114
Physics	190
Drawing	38
Manual Training	38
Elective	
Latin	190
2nd Foreign Lang.	190
History Great Brit. & Ireland	114
Economics	76
Vocal Music	38

FOURTH YEAR

English	114
Chemistry	190
Drawing	38
Manual Training	38
Elective	
Latin	190
2nd Foreign Lang.	190
American Hist. & Civics	190
Vocal Music	38

ADMISSION TO ADVANCED STANDING

Students who present certificates from other recognized dental schools covering subjects required in this College will be credited with such studies if the credentials are satisfactory to the professors in the respective departments, but when admitted to the Senior year, the candidate must do one full year's work in this school. Graduates of recognized medical colleges are credited with one year of time.

COURSE FOR DEGREE OF DOCTOR OF DENTAL SURGERY

The course covers four years. The year begins on the first day

of October and closes on Commencement Day of the University. There are thirty-two weeks of actual instruction given, six days in each week.

COURSE OF STUDY

FIRST YEAR

	Hours.	
	Lectures.	Laboratory
Biology	64	128
Chemistry	64	128
Dental Anatomy	32	64
Drawing	--	64
English	96	--
Physics	96	96
Prosthetics	16	96

SECOND YEAR

	Hours.	
	Lectures.	Laboratory
Anatomy	64	124
Bacteriology	32	96
Chemistry	64	128
Dental Histology	32	98
Dental Metallurgy	16	24
Materia Medica	30	60
Operative Dentistry	32	250
Operative Technic	16	200
Physiological Chemistry	20	60
Physiology	64	64
Prosthetics	16	96

THIRD YEAR

	Hours.	
	Lectures.	Laboratory
Applied Anatomy	--	188
Clinics (daily, 10 a. m. to 5 p. m.)		
Ceramics	16	32
Crown and Bridge Work	32	250
Operative Dentistry	32	400
Oral Hygiene	16	--
Oral Surgery	32	--
Pathology (general and dental)	64	128
Pharmacology and Therapeutics	30	60

FOURTH YEAR

	Hours. Lectures.	Laboratory
Crown and Bridge Work	--	250
Clinics (daily, 10 a. m. to 5 p. m.)		
Dental Ethics, History, Economics, and Jurisprudence	45	--
Electricity and X-ray	10	35
Oral Surgery	--	96
Orthodontia	32	96
Physical Diagnosis and Anaesthesia	30	60
Prophylaxis	15	--

SPECIAL LECTURES

At stated times important special lectures will be given. The object of these lectures is to afford the student an opportunity to attend special courses given by dental practitioners who are eminent in some specific branch of the subject. These lectures, which are accompanied by clinical demonstrations, add greatly to the value of the regular course.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Dental Surgery is conferred upon candidates not less than 21 years of age, of good moral character, who have completed satisfactorily the required course of study and fulfilled all technical and practical laboratory and clinical requirements. No student will be recommended for a degree who has not been a member of this school during the Senior year. The standing of students is based upon examinations, monthly reports of attendance, quizzes and infirmary practice.

No student will be recommended for a degree until all financial obligations to the University shall have been discharged.

DESCRIPTION OF COURSES

Biology

Four hours of laboratory and two hours of lectures or recitations a week during the first year, covering work in general Zoology for the first half year and Vertebrate Anatomy for the second half year.

Drawing

The course in Drawing includes both free hand and mechanical drawing. Twice a week for 32 weeks.

English

This course includes a thorough study of the fundamentals of English composition. 3 hours a week for 32 weeks.

Physics

Four hours of laboratory and two hours of lectures in General Physics.

Chemistry

The course in Chemistry consists of Inorganic and Organic Chemistry, including elementary Qualitative and Quantitative Analysis, and extends through two years. There are two hours of classroom and four hours of laboratory work per week.

Physiological Chemistry

The work consists of an examination of the chief organic substances, carbohydrates, fats and proteids that compose the body, followed by a study of the chemistry of salivary, gastric and pancreatic digestion and an examination of bile, blood, milk, etc.

Anatomy

Dental students receive a thorough course in Anatomy.

Extended laboratory work on the human body is conducted in conjunction with the lecture course. Anatomical material is abundant.

Physiology

The course extends throughout the second year, and consists of recitations, lectures, and demonstration. Special attention is given those points that have particular interest for dental students.

Dental Histology

An elementary course in histology followed by an intensive histologic study of the mouth, especial emphasis being placed upon the derivation of teeth and the development of the human teeth.

Materia Medica and Therapeutics

The recitations in Materia Medica cover the derivation, nature, physiologic action, dose and the antidote or antagonist of each drug, together with a practical knowledge of prescription writing for the intelligent administration of the same.

Bacteriology

Bacteriology is presented especially in its relation to dental pathology and dental practice. The student is familiarized with the general principles of the subject, with the nature of the organisms, the place they occupy in nature, their physiological processes, how and where they grow, how they live, what they do, and how they produce disease.

Prophylaxis and Hygiene

This institution and its teachers have recognized for some time that Oral Hygiene and Prophylaxis are important factors in the preservation of teeth. The scope of this course will be broad and comprehensive, a large clinic affording full opportunity for a thorough understanding of pyorrhoea alveolaris, gingivitis, and oral prophylaxis from a practical viewpoint. Special lectures covering these important sub-

jects will be given. The most advanced treatment will be followed with the student and his patient, under the supervision of the instructor of this department, the object being to better prepare our graduates to specialize in this branch.

Dental Anatomy and Operative Technic

Dental Anatomy, the anatomy of the human teeth, is taught in the *first semester*, and Operative Technic is taught in the *second semester*.

The first two weeks are given mostly to the study of dental nomenclature. Then descriptive human dental anatomy is taken up and the forms and surface markings of each tooth studied. This part of the work is illustrated by models, enabling the lecturer to locate every detail of form and of surface markings upon the teeth so that they may be accurately understood.

In order that tooth forms may be more perfectly impressed upon the mind, during this stndy, and be of use in shaping teeth, artificial crowns and fillings in teeth in after-practice, a tooth of each class, as the incisors, cuspids, bicuspids and molars, is made by each student, first in clay, then in bone or ivory, representing the actual size and form of the tooth.

Students of this school will be expected to attain a high degree of proficiency in the manipulation of porcelain. The College is equipped with furnaces for continuous gum work and machines for casting gold inlays.

Oral Surgery

This course embraces instruction in the general principles of surgery and their practical application to pathological conditions occurring about the mouth and face, giving special attention to diagnosis and recognition of conditions requiring surgical interference.

Professional Ethics and Dental Jurisprudence Lectures

The lectures cover the relations of dental surgeons to the patients and to each other.

Operative Dentistry

The course in Operative Dentistry includes the consideration of the preparation of all forms of cavities, of different filling materials —plastic, gold and porcelain—the methods employed in the preparation and manufacture of each, as well as how and when each is used. Also a study of all appliances and instruments used in Operative Dentistry, and all new modern inventions. Models, patterns, diagrams, lantern slides and other illustrations to make the subject plain, complete and practical.

Orthodontia

This subject is taught during the Junior and Senior years.

Beginning with normal occlusion, the lectures take up different

classes of malocclusion, special attention being given to diagnosis and treatment. This is followed by several lectures on retension, followed by a course in model and appliance making.

In the Senior year the instruction is mainly clinical, and is given at the individual chairs in the Infirmary.

Metallurgy

This subject is given during the second year—one lecture each week—in which those metals used in dentistry will be most prominently considered, as iron, steel, copper, zinc, tin, lead, aluminum, silver, gold, platinum, etc. The art of soldering, characteristics of the various metals, the compounding of solders, fluxes, alloys, etc., will be included in this course and practically demonstrated in the laboratory.

Pathology

This important branch will be thoroughly taught in its general relation to the human system and the special features pertaining to dentistry, which will be minutely treated in the course.

Physical Diagnosis and Anaesthesia

With the progress that has been made in all the departments of the practice of dentistry, it becomes not only desirable, but necessary, that the practicing dentist should be able not only to make such an examination of his patient as may enable him to determine the advisability of the use of an anaesthetic, but he should also know the conditions which should influence him in the selection of the anaesthetic for each individual case.

This work is covered by a course of lectures, supplemented with such clinical instruction as may be necessary.

Electricity and X-ray

The lectures in this course will embrace a study of the principles underlying the use of electricity and the X-ray in their practical application to dentistry.

Porcelain

Porcelain is attracting more and more attention. It is the most artistic method of restoring teeth or parts of teeth. Cavities in the natural teeth can be filled with porcelain inlays, which cannot be detected.

Prosthetic Dentistry

Prosthetic Dentistry will be taught by lectures and clinical demonstration, each lecture, as far as practicable, will be followed by clinics, so that students may have a thorough appreciation of the practical application of the lectures.

The laboratory is thoroughly equipped for the practical teaching of this most important branch of dentistry. It is under the direct

personal supervision of the professor, assisted by a competent demonstrator and assistant.

The course embraces the proper fitting up of a dental laboratory, the use of tools, the preparation of the mouth for dentures, methods of taking impressions of the mouth and articulations, the materials used, their composition and manipulation, as well as the preparation of models for dentures made on the various bases. The anatomical and artistic arrangement of the teeth, viz, in mastication, enunciation, facial contour, etc., will be most carefully considered; formulae for compounding bodies and enamels used in the manufacture of artificial teeth and continuous gum work: vulcanite and celluloid, their composition and methods of working, including all varieties of repairing; fusible metal bases; the construction of metal plate work in gold, silver, platinum, etc.; making dies and counter-dies from the different materials used; swaging and fitting plates, and of soldering, bending and fitting of clamps; combination plates of metal and vulcanite or celluloid; the mechanical treatment of cleft palate, including the several methods of constructing vela and obturators; ceramic dentistry, covering continuous gum work, the different methods of fusing, furnaces, bodies, enamel, etc., will be thoroughly and practically covered in every detail.

The technical course covers a complete training in prosthetic technic, preparing the student for practical work, including the taking of impressions, articulations, preparations of models, the construction of dentures on the different bases, etc. Before passing from one class to another, the student is obliged to obtain from the demonstrator in charge a certificate of qualification, which, together with the work performed, will be finally passed upon by the professor in charge of the department.

Crown and Bridge Work

Preparation of the roots of extracted teeth for bands, fitting bands, carving cusps in plaster and other materials, making dies, swaging cusps, soldering cusps to bands and finishing. Making porcelain-faced crowns, conforming bands and constructing copes, grinding and backing, facing and fitting to cope, investing, soldering and finishing, constructing various forms of porcelain and metal dummies, previously constructed and forming bridges, investing, soldering and finishing.

DENTAL INFIRMARY

Frederick P. Barrier, D. D. S., *Superintendent*
Thomas W. Edwards, D. D. S., *Demonstrator*
Raymond B. Thomas, D. D. S., *Demonstrator*
Joseph C. Brozier, D. D. S., *Demonstrator*
Melanchthon J. D. Wiseman, D. D. S., *Demonstrator*

The Dental Infirmary and Laboratory occupies a building with 6,000 square feet of floor space, which is well lighted and ventilated. New dental chairs and laboratory apparatus have been added, so that the equipment of this department compares favorably with that of the best colleges, and is especially designed for the successful teaching of modern dentistry. The opportunities offered students for special preparation to enter practice are not exceeded by any other college.

The Infirmary is open the year round, daily, except Sunday, from 10 a. m. to 5 p. m.

Abundant clinical material is always at hand, and students are required to perform all operations in ordinary practice. No student is excused from this service.

Students are required to furnish their own instruments, excepting forceps, lathes and vulcanizers. A list of the necessary instruments will be furnished to first-year students.

No student can enter the Senior Class until he presents a certificate from the demonstrator and professor certifying that he has attended the regular afternoon clinics during the session.

The fact that the immense hospital of the University, with all its wealth of instruction, is free to the dental classes, and that this hospital is at the very door of the College, makes the opportunity for study unsurpassed.

All friends of the College are requested to add to the collection of curiosities and abnormal specimens now accumulating. Dentists are reminded that the abnormal specimens lying idle in their cabinets may be of great benefit to our students.

THE PHARMACEUTICAL COLLEGE

FACULTY

REV. J. STANLEY DURKEE, A. M., Ph. D.
President of the University.
EDWARD A. BALLOCH, A. M., M. D., Dean
J. HERVE PURDY, Phar. D., Vice-Dean
Professor of Pharmacy, and in Charge of Pharmaceutic Laboratory.
WILLIAM C. McNEILL, M. D., Secretary.

EDGAR B. KEEMER, Phar. C.
Professor of Theory and Practice of Pharmacy.
JOHN W. MITCHELL, M. D., Phar. D.
Professor Materia Medica and Therapeutics.
ERNEST E. JUST, A. B., Ph. D.
Professor Physiology.
EUGENE R. WHITMORE, B. S., M. D.
Professor Bacteriology.
DANIEL H. SMITH, Phar. D.
Assistant in Pharmacy.

Advantages

It is a great advantage to the students of pharmacy to attend a college where medicine, dentistry and pharmacy are taught simultaneously. Students of pharmacy have the benefit of thus associating with a large number of students in annual attendance, coming from all parts of the world.

Requirements for Admission

Applicants for admission must present a certificate of good moral character and fitness to enter upon the study of pharmacy, must be at least 17 years of age, and must present evidence of having completed satisfactorily four full years of work in an accredited high school, or its equivalent.

Entrance Without Experience

Students are not required to have drug store experience at entrance, and many students enter college who have never worked in drug stores. However, such experience is very desirable, and students are advised to acquire it before taking up the study of pharmacy.

Scholarships

The Faculty of the School of Medicine has granted a free scholarship in the Pharmaceutic College to graduates of the Dunbar High

School and Armstrong Manual Training School. The recipient of this scholarship is to be named by the Faculty Council of this College upon proper recommendations.

Course of Study

Three years' study required before graduation.

The rapid progress made in the sciences and arts directly affecting the practice of pharmacy, and the widely diversified knowledge now required to keep the pharmacist in touch with the best results of modern research, have made an extension of the course of instruction imperatively necessary. Students entering the College will therefore be required to take a course of study covering a priod of three years before they will be entitled to graduation.

Curriculum

The curriculum comprises Chemistry, Toxicology, Urinalysis, Botany, Materia Medica, Therapeutics, Pharmacy, Pharmacology, Microscopy, Physiology, Bacteriology and a modern language.

The course in Pharmacy comprises three sessions, each of thirty-two weeks' duration.

Lectures, etc.

Instruction will include didactic lectures, recitations and laboratory work.

The student is admonished that his conduct in the laboratory, his punctual attendance in his classes and interest shown in his work will have great weight with his instructors, while the lack of these qualities will certainly act against him.

Students will be required to have the necessary text-books for each branch at the beginning of the session. It has been arranged that only such books as are needed will have to be purchased at once.

Examinations

Examinations are held during the week preceding the Christmas vacation. At the close of the session of the first year, students are examined upon the subject-matter of the courses included in the year's work. Students failing in three of the subjects of either year are required to repeat the whole year's work and are not eligible for promotion. Students who are conditioned in the subjects of the first year, but who have passed in a majority of them, will be examined on the subjects in which they have conditions, at the opening of the succeeding session. Failing to pass, then, they are required to repeat the course in the subjects on which they are conditioned, in addition to the work of the other year.

Admission to Advanced Standing

Students who have attended one or more courses of lectures at

some other registered college of pharmacy will be admitted to the corresponding class of this College upon presentation of evidence that they have successfully passed the examinations to which they are entitled by reason of time spent and branches passed. The final examinations, of which due notice will be given, are held during the two weeks preceding commencement. For admission to Senior examinations, attendance upon three full courses of lectures and the laboratory courses is required.

Requirements for Graduation

The College confers the degree of Pharmaceutical Chemist upon successful candidates. Applicants for this degree must have had the required preliminary education, must be of good moral character, have attended three full courses, at least the last one, in this College, and have passed satisfactory examinations and paid all required fees.

MATERIA MEDICA, THERAPEUTICS AND TOXICOLOGY

Three hours of lectures and recitations each week throughout the term.

PHYSIOLOGY

First-year students attend lectures in Physiology.

CHEMISTRY

The course in Chemistry is given during the first and second years, and consists of Inorganic and Organic Chemistry, with some elementary Qualitative and Quantitative Analysis included.

First year. Inorganic Chemistry and Qualitative Analysis:

In the class room the elements and their more important compounds will be discussed, due attention being paid to the introduction of chemical theories at suitable periods. Recitations and written quizzes are frequently given. Chemical arithmetic and equation writing are included.

Experiments in General Inorganic Chemistry are selected with the view of giving the student practice in conducting chemical experiments, as well as affording an acquaintance with the properties of the chemicals employed.

In the classroom schemes for the separation and identification of metals and the detection of the acid radical will be discussed, while in the laboratory the student will repeat the reactions with known solutions, and finally be required to analyze more or less complex mixtures.

Second Year. Quantitative Analysis and Organic Chemistry:

The work of the second year begins with a further consideration of analysis, giving practice in simple quantitative determinations by gravimetric and volumetric methods. This brief course is followed by classroom and laboratory work in Organic Chemistry. The classes of carbon compounds, their structure, synthesis, and transitions, are reviewed, but in the study of individual substances the greater emphasis is placed on those of importance from the pharmaceutical point of view. Some attention is given, however, to certain commercial products and their manufacture.

In the laboratory the student obtains a practical study of some of the typical compounds and their reactions.

PHARMACEUTICAL BACTERIOLOGY

The course in Bacteriology for pharmacy students is essentially the same as that for medical students, but necessarily more elementary. Less stress is laid on the pathologic and clinical aspects of the subject, and more attention paid to the various forms of sera and vaccines likely to be handled by pharmacists. One lecture and six hours of laboratory work a week for the second semester.

BOTANY

Two hours of lectures and laboratory work once a week for the first semester.

Instruction in Botany will begin on the first Wednesday in October, with the study of the elementary tissues of which plants are composed and the manner in which these tissues are built up into roots, stems, leaves, flowers and fruits. Physiology and classifications will then be considered, together with the collection and identification of fresh specimens.

MICROSCOPY

This College, recognizing the importance and value of Microscopy in the practice of pharmacy, has established a course in this branch and requires full attendance from Senior students upon the instruction given. Two hours per week for the second semester.

PHARMACY

Pharmacy I-a. Theoretical Pharmacy, a systematic study consisting of principles and processes of Pharmacy, with demonstrations of the same; also the classification of natural medicinal products and galenital preparations. Lectures and recitations: 3 hours per week. First year.

Pharmacy I-b. Pharmaceutical Arithmetic, a systematic study of

the different types of problems met with in the practice of Pharmacy. Recitations. 1 hour per week. Second semester of first year.

Pharmacy II. Official Pharmacy of Inorganic Compounds, including the study of all official inorganic compounds and the more important unofficial ones with the identification and preparations of the same. Recitations. 2 hours per week. Second year.

Pharmacy III-a. Official Pharmacy of Organic Compounds, consisting of a study of all official organic compounds and their derivatives. including alkaloids, glucosides, and neutral principles. Recitations. 2 hours per week. First semester of third year.

Pharmacy III-b. Pharmacopoeia and National Formulary. A detailed review of the same. Rceitations. 2 hours per week. Second semester of third year.

Pharmacy IV. Prescription reading and Incompatibilities. Lectures and recitations. 1 hour per week. Third year.

PHARMACOGNOSY

Pharmacognosy. A study of crude drugs, with special reference to identification, preservation, source and constituents. Recitations and lectures. 2 hours per week. Second year.

PHARMACEUTICAL LABORATORY WORK

FIRST YEAR

Six hours a week laboratory work for the session.

The laboratory work of the first year will supply the practical aid to the theoretical teaching.

The student will have the opportunity to become perfectly familiar with the apparatus used in pharmaceutical work and the manipulation of the same, thus giving him the technical training which contributes much to his success in the store. He will also be taught the care of apparatus, rules to be observed in laboratory work, recording results, etc. Instruction will be given upon the proper use of the Pharmacopoeia and manner of reading formulae.

Through a series of practically adapted lines of work he will be enabled to master the different systems of weights and measures. After this will be given the methods employed and apparatus used in determining specific weight and its application to pharmacy, specific volume, dilution, fortification and mixing of alcohol to produce any desired strength, the computation of averages and proportions in mixing to produce any desired values (or percentages), how to express, use and transpose formulae in parts by weight; methods for measurement of heat, manner of testing and using thermometers, etc.

The remainder of the year will be devoted to the preparation of a series of official galenical preparations, enabling the students to judge quickly and accurately as to the best method of making these various pharmaceutical preparations.

SECOND YEAR

Six hours a week for the session.

The laboratory course for the second year is a continuation of the preparation of official preparations, requiring various pharmaceutical processes and operations such as the various methods of percolation, recovering of alcohol from exhausted drugs and weak percolates determination of the percentage of alcohol in the recovered liquid, methods of regulating and modifying heat by use of baths, mode of conducting evaporation, principles involved in processes of distillation, different modes of sublimation, solution, decantation, percolation, lotion, filtration, maceration, digestion and fusion.

The remainder of the year will be devoted to making such preparations as cerates, ointments, plasters, chartae, suppositories, powder masses, confections, pills, and the various excipients used in making them.

The laboratory work will follow as closely as possible the subject matter of lectures, each student receiving individual attention and instruction.

THIRD YEAR

Twelve hours a week for the session.

The laboratory course for this year will have a special bearing in fitting the student for actual professional work. Prescription dispensing and magistral pharmacy will be entered into more fully than during the former courses, for under this head comes the most important instruction in pharmacy, since it embraces the principal amount of labor in the store and calls for more tact, knowledge and skill than any other branch.

The high standards that have been adopted, and the exacting requirements of the Ninth Edition of the Pharmacopoeia make it obligatory upon the present-day pharmacist, in order to prepare even some of the simplest galenicals, to have the knowledge and skill that formerly were accredited to the professional chemist. Now however, it is demanded of the pharmacist that he be able to perform this work. A few years ago no particular skill was required to make the ordinary shop tincture, and such preparation was generally left to the apprentice. Now let the uneducated pharmacist attempt the preparation of say, tincture of opium according to pharmacopoeial method, and see how he will come out. Therefore special attention is devoted to pharmaceutical chemistry, and as an adjunct or resume to

the regular course in chemistry, time will be given to this subject for the purpose of applying the general knowledge already gained, to enable the student to carry out this line of pharmaceutical work essential to his profession, in a manner adapted to every day needs.

Volumetric quantitative analysis, with titrimetric methods of alkaloidal estimation and standardization in general, will be practiced until the student becomes familiar with and can readily apply them to practical use.

Essential points that will not be overlooked are, the acquirement of absolute accuracy, since this factor plays such an important part, especially when operating with very dilute standard solutions; the preparation and maintenance of reagent solutions; the mathematical methods enabling the student to arrive at results of his assay. Practice will be given in applying pharmacopoeial tests for chemicals and official preparations. Thorough instruction will be given in such subjects as, the Purification of chemicals, Gasometric estimations, Iodine absorption values, Saponification valuation, Determination of alcohol in official preparations, Determinations of extractives, Sterilization, the solubility of chemicals, boiling and congealing points, etc. The course will embrace a variety of subjects of importance tending towards filling out the student's stock of knowledge.

GRADUATES FOR THE YEAR 1919-20

MEDICAL COLLEGE

Doctors of Medicine—27

Baumgardner, Luther Ovid, A. B., Howard ..... Columbia, S. C.
Bell, George Emmett, B. S., Howard ..... Lawrenceburg, Ky.
Brooks, Joseph Hunter, B. S., Howard ..... Staunton, Va.
Camper, John E. T., B. S., Howard ..... Baltimore, Md.
Chubb, Louis DeG. Anderson ..... St. Lucia, B. W. I.
Dancy, Joseph Price, B. S., Pittsburgh, Pa. ..... Washington, D. C.
Davis, James Taylor ..... Jamaica, B. W. I.
Granady, James T. W., B. S., Howard ..... New York, N. Y.
Hilton, Philip Arlis, A. B., Lincoln ..... Farmville, Va.
Hosein, Mozan ..... Trinidad, B. W. I.
Howard, Wioza Lee, B. S., Howard ..... Jacksonville, Texas
Johnson, Willis Carrington, A. B., Va. Union ..... New York, N. Y.
Lewis, Milton Carey ..... Washington, D. C.
Lunsford, Charles Terrel, A. B., Howard ..... New York, N. Y.
Marshall, Lawrence Henry ..... Camden, N. J.
Phillips, Alfred Augustus ..... Jamaica, B. W. I.
Powell, Clilan Bethany ..... Newport News, Va.
Reid, Forest Monroe, A. B., Livingstone ..... Lowell, N. C.
Sampson, John Patterson, B. S., Howard ..... Asbury Park, N. J.
Saunders, Frank Augustus, B. S., Howard ..... Baltimore, Md.
Sheffield, Orville Roslyn, A. B., Shaw ..... Chicago, Ill.
Sherrill, George William, A. B., Livingstone ..... Landis, N. C.
Starks, Samuel Lumpkin, A. B., Paine ..... Toronto, Ontario, Canada
Sutton, Carrie Jane ..... San Antonio, Texas
Waters, John Lambert, B. S., Howard ..... Oxford, Md.
Winston, James Frank, B. S., Howard ..... Enfield, Va.
Whyte, William Elias ..... Grenada, B. W. I.

DENTAL COLLEGE

Doctors of Dental Surgery—36

Berwick, Richard Newall ..... Jamaica, B. W. I.
Bradley, Frank Ferrell ..... Roxbury, Va.
Calloway, Golden McKinley ..... Marysville, O.
Coleman, Nathaniel Henry ..... Albany, N. Y.
Coleman, William Perry, Ph. G., Shaw ..... El Paso, Texas

Dickerson, Enoch Wright, Phar. D., Howard ------Baltimore, Md.
DuBissette, Hyacinthe Eustace ----------Grenada, B. W. I.
Duhaney, Amy Elise ----------Jamaica, B. W. I.
Foeman, Samuel Gary ----------New Haven, Conn.
Fowlkes, Leslie Arthur ----------Burkeville, Va.
Gibbs, Benjamin Disraeli ----------Barbados, B. W. I.
Godden, Charles Samuel ----------Jamaica, B. W. I.
Hillman, John Garrard ----------Covington, Ky.
Hines, Ashley Austin, Jr. ----------Washington, D. C.
Holmes, Clarence Fitzhugh, Jr. ----------Denver, Colo.
Johnson, Herbert S., A. B., Biddle ----------Columbia, S. C.
Johnson, Powell ----------Dallas, Texas
Johnston, Joseph Edward ----------Nashville, Tenn.
Kincaid, Leon ----------Pittsburgh, Pa.
Kirton, George Lyte ----------Barbados, B. W. I.
Lewis, Huling Henry ----------Charleston, W. Va.
Lynch, Lionel Robert ----------Trinidad, B. W. I.
Miller, Stephen Douglas ----------Des Moines, Iowa
Moore, Clarence Victor ----------Dayton, Ohio
Morrison, William Edward ----------Everett, Mass.
Park, Stewart Culin, A. B., Lincoln ----------Savannah, Ga.
Payne, Charles Benjamin ----------Charleston, W. Va.
Picou, Alexander Reginald ----------Trinidad, B. W. I.
Pollock, S. M. ----------Mexia, Texas
Roberts, Howard Clairmonte ----------Barbados, B. W. I.
Taylor, Robert Beecher, A. B., Union ----------Richmond, Va.
Taylor, William Edward ----------Washington, D. C.
Thompson, Aston Laws ----------New York, N. Y.
Thompson, Herbert T. W. ----------Dayton, O.
Thompson, Robert Harry ----------Westfield, N. J.
Young, Isaac Henry, A. B., Morgan ----------Philadelphia, Pa.

PHARMACEUTICAL COLLEGE

Pharmaceutical Chemists—9

Garrett, York David, Jr. ----------Tarboro, N. C.
Green, Burrell Harrison ----------Oak City, N. C.
Harris, William Percival ----------Athens, Ga.
Mosley, George Spelman ----------Bellefonte, Pa.
Smith, Richard Allyn ----------Troy, Pa.
Smyre, Robert Walton ----------Newton, N. C.
Snowden, Ernest Otto ----------Rosslyn, Va.
Watson, Charles Irving ----------Monroe, N. C.
Woods, Eldridge Garrett ----------San Antonio, Texas

MEDICAL COLLEGE

First Year Medical Class

Ballard, Orville Lee ---------- Lexington, Ky.
Brown, William Roderick, Jr. ---------- Pittsburg, Pa.
Baucum, William Charles ---------- Wadesboro, N. C.
Collins, Vernon, B. S., Howard ---------- El Paso, Texas
Davis, Melvin Reid ---------- Washington, D. C.
Douglass, Henry Edward Mathew Egerton ------ Grenada, B. W. I.
Gilpin, Zenobia Gustava ---------- Richmond, Va.
Goodloe, William Andrew, B. S., Howard -------- Washington, D. C.
Hall, William Myron ---------- West Point, Miss.
Hayling, William Samuel ---------- Grenada, B. W. I.
Harris, Bernard, B. S., Howard ---------- Baltimore, Md.
Hollomand, George Crocker ---------- Washington, D. C.
Jones, James Edward ---------- Elizabeth City, N. C.
Jones, Joseph Robinson ---------- Danville, Ky.
Johnson, Edward Milton ---------- Lexington, Ky.
Little, George William Walter ---------- Elizabeth, Pa.
Maloney, Charles Franklin, B. S., Howard ---------- Chester, Pa.
Patton, Thelma Adele ---------- Houston, Texas
Pelham, Harry Leroy, A. B., Lincoln ---------- Washington, D. C.
Peyton, Isaac Smith Terrell ---------- Jackson, Miss.
Piper, Paul Edward ---------- Washington, D. C.
Reeves, John Luther ---------- West Philadelphia, Pa.
Richardson, Percy Scott ---------- New Rochelle, N. Y.
Richmond, Arthur Earl ---------- Pittsburgh, Pa.
Robinson, Cyril Fitzherbert ---------- Trinidad, B. W. I.
Smith, Alvin James ---------- New Orleans, La.
Stephens, John Leslie, Ph. G., Shaw ---------- Atlantic City, N. J.
White, Herbert Nathaniel ---------- Ashville, N .C.
Williams, Harry Maceo ----------Baltimore, Md.

Second Year Medical Class

Aromi, Virgilio Rivera ---------- Ponce, Porto Rico
Brown, Thomas Jacob, Jr., B. S., Howard ------- Washington, D. C.
Chaires, George Slatrer, B. S., Howard --------- St. Augustine, Fla.
Delph, Walter Ivey ---------- Chester Heights, Pa.
Georges, Thomas Walford, B. S., How'd, Road Town, Tortola, B. W. I.
Haydel, Clarence Cleman ---------- Wallace, La.
Jackson, Allen, F., Jr., B. S., Howard --------- Washington, D. C.
Jones, Richard Francis, B. S., Howard ---------- Washington, D. C.
Lander, Thomas Abraham ---------- Chester, S. C.
Lofton, Melvin McKinley, B. S., Howard ------ Washington, D. C.

Luck, Clyde Alexander, B. S., Howard ---------- Danville, Va.
Payne, Arthur Charles ---------- Washington, D. C.
Reese, William Hobart, B. S., Howard ---------- Kansas City, Mo.
Ross, Marshall Ellis, B. S., Howard ---------- Newport, R. I.
Thomas, Edgar ---------- Mt. Gilead, N. C.
Thornhill, Arthur C. ---------- Barbados, B. W. I.
Warf, Ira Edward ---------- Mt. Airy, N. C.
Williams, Luke Edon, B. S., Howard ---------- Palmyra, N. C.

Third Year Medical Class

Allen, William Henry, B. S., Shaw ---------- New York, N. Y.
Carter, Peter Jacob ---------- New York, N. Y.
Christian, Albert Leonard, B. S., Howard ---------- Yorktown, Va.
Cook, Christopher Columbus, A. B., Howard ---------- Richmond, Va.
Dismukes, Henry Dodford, B. S., Howard ---------- Montgomery, Ala.
DuBissette, Michael Edmund, B. S., Shaw ---------- St. Georges, B. W. I.
Edwards, Conrad Alpheus, B. S., Shaw ---------- Barbados, B. W. I.
Fairweather, Charles Andrew ---------- Panama, R. P.
Gaikins, George Alvin, A. B., Philander Smith ---------- Tillar, Ark.
Gittens, Edward Fitzgerald ---------- Barbados, B. W. I.
Gooden, Earl Lucus, B. S., Howard ---------- Petersburg, Va.
Gunn, James Hairston, A. B., Shaw ---------- Watson, N. C.
Hightower, Nathaniel Dorsette, B. S., Howard ---------- Montgomery, Ala.
Howard, Charles Bartholomew, B. S., Howard ---------- Wilkes Barre, Pa.
McCloud, William, A. B., Lincoln ---------- Fort Lawn, S. C.
McKenzie, Britten Glisper, B. S., Shaw ---------- Tuscaloosa, Ala.
Morton, Albert McIntosh, B. S., Howard ---------- Washington, D. C.
Newman, Lloyd Henry, B. S., Howard ---------- Washington, D. C.
Peace, William Clarence, A. B., Howard ---------- Henderson, N. C.
Polk, Charles Carrington, B. S., Howard ---------- Lawnside, N. J.
Rector, John King, A. B., Williams ---------- Washington, D. C
Robeson, William Drew, Jr., A. B., Lincoln ---------- Somerville, N. J.
Rolon, Jose Antonio Lanauze ---------- Coamo, Porto Rico
Stone, Emmons Braxton ---------- Selma, Ala.
Sweet, Ossian Haven, B. S., Wilberforce ---------- Bartow, Fla.
Tancil, Leon Algernon, B. S., Howard ---------- Alexandria, Va.
Thomas, Nelson Morton, Ph. G., Northwestern ---------- Washington, D. C.
Tucker, Jacob Triscott, B. S., Howard ---------- Bermuda, B. W. I.
Turner, Ledrue William, B. S., Wilberforce ---------- Oklahoma City, Okla.
Webb, Hayward Thomas ---------- Preston, Md.
Wells, James Samuel, A. B., Howard ---------- Chester, Pa.
Williams, Edwin Leon, A. B., Biddle ---------- Goldsboro, N. C.
Wynter, Thomas Aaron Percival ---------- Jamaica, B. W. I.

Fourth Year Medical Class

Baumgardner, Luther Ovid, A. B., Howard -------- Columbia, S. C.
Bell, George Emmett, B. S., Howard --------- Lawrenceburg, Ky.
Brooks, Joseph Hunter, B. S., Howard ---------- Staunton, Va.
Camper, John E. T., B. S., Howard ---------- Baltimore, Md.
Chubb, Louis DeG. Anderson ---------- St. Lucia, B. W. I.
Commissiong, Leo Raphael, A. B., Lincoln ------ Trinidad, B. W. I.
Dancy, Joseph Price, B. S., Pittsburg --------- Washington, D. C.
Davis, James Taylor ---------- Jamaica, B. W. I.
Foster, William Henry, B. S., Howard ---------- New York, N. Y.
Granaday, James T. W., B. S., Howard ---------- New York, N. Y.
Hilton, Philip Arlis, A. B., Lincoln ---------- Farmville, Va.
Hosein, Mozam ---------- Trinidad, B. W. I.
Howard, Wioza Lee, B. S., Howard ---------- Jacksonville, Texas
Johnson, Willis Carrington, A. B., Va. Union ------ New York, N. Y.
Lewis, Milton Carey ---------- Washington, D. C.
Lunsford, Charles Terrel, A. B., Howard ---------New York, N. Y.
Marshall, Lawrence Henry ---------- Camden, N. J.
McCarter, Garfield ---------- Magnolia Springs, Texas
Phillips, Alfred Augustus ---------- Jamaica, B. W. I.
Powell, Clilan Bethany ---------- Newport News, Va.
Reid, Forest Monroe, A. B., Livingstone ---------- Lowell, N. C.
Sampson, John Patterson, B. S., Howard ------- Asbury Park, N. J.
Saunders, Frank Augustus, B. S., Howard --------- Baltimore, Md.
Sheffield, Orville Roslyn, A. B., Shaw ---------- Chicago, Ill.
Sherrill, George William, A. B., Livingstone ---------- Landis, N. C.
Starks, Samuel Lumpkin, A. B., Paine ---------- Toronto, Ont.
Sutton, Carrie Jane ---------- San Antonio, Texas
Walker, Micajah Theodore, B. S., Howard ------ Charlottesville, Va.
Waters, John Lambert, B. S., Howard ---------- Oxford, Md.
Willie, Edward Henry ---------- Elizabeth City, N. C.
Winston, James Frank, B. S., Howard ---------- Enfield, Va.
Whyte, William Elias ---------- Grenada, B. W. I.
Young, Walton Wheeler, B. S., Howard -------- Spartanburg, S. C.

DENTAL COLLEGE

First Year Dental Class

Allen, Major ---------- New Haven, Conn.
Anderson, Subbeal Steward ---------- Richmond Va.
Barber, Fletcher ---------- Cleveland, Ohio
Barclay, DeWitt Farriss ---------- Houston, Texas

Barnes, Boisy Winslow ---------- Greensboro, N. C.
Barnes, Noah Clifford ---------- Washington, D. C.
Bassette, Edward Eugene ---------- Hampton, Va.
Bate, John William ---------- Danville, Ky.
Bolden, Emmett Nelson ---------- Grand Rapids, Mich.
Brown, Rudolph Wilbur ---------- Atlantic City, N. J.
*Bruce, Lloyd Wilkinson ---------- Washington, D. C.
Burke, William Tunnell ---------- Norfolk, Va.
Bushell, Edward Eugene ---------- Portsmouth, Va.
Calloway, Willis Samuel ---------- Kilgore, Texas
Carroll, Charles Herman ---------- Bracey, Va.
Carter, Clarence Ashton ---------- Washington, D. C.
Carter, Irving Arnold ---------- Navasota, Texas
Carter, Jesse Spurgeon ---------- Huntington, W. Va.
Chandler, Harry Wilkins ---------- Washington, D. C.
Christmas, Frank Debnam ---------- Monroe, N. C.
Cole, Simeon James ---------- Meridian, Miss.
Coles, Bernard Albert ---------- Charlottesville, Va.
Collymore, Errold Duncan ---------- New York, N. Y.
Colum, Hezekiah Sumner ---------- Menifee, Ark.
Cooper, Claude Wendell ---------- Oyster Bay, N. Y.
Cooper, Joseph Henry ---------- Washington, D. C.
Craig, Howard ---------- Grafton, W. Va.
Crawford, Fred Douglass, B. S., Howard ---------- Charleston, S. C.
Crawford, James Nathaniel ---------- Buff Bay, B. W. I
Crawley, Nat Samuel ---------- Felts Mills, N. Y.
Davis, Jackson Lee ---------- Mansfield, La.
D'Arbeau, Uriah Theophilus ---------- Grenada, B. W. I.
Dickerson, W. Sumpter ---------- Lancaster, Pa.
Dillard, James Berry ---------- Richmond, Va.
Dingle, Edmund Willis ---------- St. Stephens, S. C.
Douglass, Joseph Edward ---------- Washington, D. C.
Downing, Lawrence Randolph ---------- Altoona, Pa.
Dyer, William Henry ---------- Washington, D. C.
Early, Benjamin Harrison ---------- Gordonsville, Va.
Edney, Hayward Pettigrew ---------- Edenton, N. C.
Elliott, William Kennedy ---------- Huntington, W. Va.
Evans, Clarence Carnot ---------- Washington, D. C.
Fennall, James Edward ---------- Norfolk, Va.
Fitzgerald, John Richard, Jr. ---------- Montclair, N. J.
Fleming, Daniel Curtis ---------- Newport News, Va.
Gaskin, Arthur ---------- Barbados, B. W. I.

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*Deceased

Gaskin, Lionel Eugene ---------- Trinidad, B. W. I.
Gilbert, Elisha Alexander ---------- Columbia, S. C.
Gillespie, James Arthur ---------- Bennettsville, S. C.
Gittens, Cecil LaBarrie ---------- Trinidad, B. W. I.
Gittens, Conrad ---------- Trinidad, B. W. I.
Goode, James Henry, Jr. ---------- Columbia, S. C.
Grady, William Thomas ---------- Dudley, N. C.
Graham, Edward Addison ---------- Boston, Mass.
Green, Alvin ---------- Austin, Texas
Hall, Henry Myrtle ---------- Greenville, Ky.
Hamilton, Stephen Carl ---------- Vienna, Ga.
Harris, Newton Thomas ---------- New York, N. Y.
Henry, Clinton Leroy ---------- Asbury Park, N. J.
Holt, Sameul Collins ---------- Salisbury, N. C.
Holton, Leo Sigsbee ---------- Washington, D. C.
Howe, Albert Edward ---------- Florence, S. C.
Jefferson, Edwin Ruffin ---------- Steelton, Pa.
Jefferson, Leon Oren ---------- Houston, Texas
Johnson, Frederick Douglas ---------- Monroe, La.
Johnson, William Kennedy ---------- Lexington, Ky.
Jones, Osborne ---------- Houston, Texas
Love, Brutus Louis ---------- Hattiesburg, Miss.
Maloy, William Henry ---------- Greensboro, N. C.
Minyard, William Howard ---------- Asbury Park, N. J.
Molson, Merritt Corbett ---------- Albany, N. Y.
Morton, Frederick Douglas ---------- Washington, D. C.
Nelson, Louis Medard ---------- New Orleans, La.
Parker, Cephas Murray ---------- Red Bank, N. J.
Parks, William Walker ---------- Richmond, Ky.
Phillips, Charles Wentworth ---------- Lexington, Miss.
Phillips, John Tyler ---------- Paducah, Ky.
Porter, Chester Arthur ---------- Washington, D. C.
Porter, William Henry ---------- Washington, D. C.
Reese, Joseph Cherry ---------- Newberry, S. C.
Reid, Fitzhugh Lee ---------- Washington, D. C.
Reynolds, Charles Arthur, Jr. ---------- East Rutherford, N. J.
Richardson, Robert Maxwell ---------- Cleveland, Ohio
Rountree, Pleamon Milton ---------- Tampa, Fla.
Saddler, William Nathaniel ---------- Kimball, W. Va.
Saunders, Ottawa Jefferson ---------- Washington, D. C.
Scott, John Washington ---------- Pensacola, Fla.
Sealey, Simeon Flavius ---------- Brooklyn, N. Y.
Sechrest, John Louis ---------- Dry Ridge, Ky.
Sheppherd, Samuel Armstrong ---------- Norfolk, Va.

Skinner, William Henry ---------- Norfolk, Va.
Smith, Clarence Louis ---------- St. Paul, Minn.
Smith, Dennis Edward ---------- Charleston, W. Va.
Smith, Henry Nathan ---------- Alachua, Fla.
Smith, Joseph Willie ---------- Beaumont, Texas
Smith, Robert Edward ---------- Louisville, Ky.
Spence, Cyril Alexander ---------- Republic of Panama
Suter, Lyle Sumner ---------- Marshalltown, Iowa
Telfair, Owen DeBernierre ---------- Wilmington, N. C.
Thompson, Heyward Golden ---------- Columbia, S. C.
Tollett, Harrel Edward ---------- Muskogee, Okla.
Vilain, Percy Eugene ---------- New York, N. Y.
Walker, George Arden ---------- Hollidaysburg, Pa.
Ward, Roscoe Cassius ---------- Greensboro, N. C.
Watts, Maurice Love ---------- Raleigh, N. C.
Weaver, Garon Shields ---------- Raleigh, N. C.
Weaver, Jesse Basil ---------- Raleigh, N. C.
Williams, Joseph Adolphus ---------- Colon, Panama
Williams, Nelson Murray ---------- Baltimore, Md.
Williamson, Gammon Harvey ---------- Norfolk, Va.
Wright, Jerome Bernard ---------- Goldsboro, N. C.
Zeigler, Eva Mae ---------- Rowland, N. C.

Second Year Dental Class

Alexander, Paul Henry ---------- Bridgeport, Ohio
Boykin, Alonzo Edward ---------- Raleigh, N. C.
Bryan, Elbert Eure ---------- Tarboro, N. C.
Camper, Douglas James, A. B., Morgan ---------- Baltimore, Md.
Chatman, George Andrew ---------- Philadelphia, Pa.
Chiles, John ---------- Staunton, Va.
Cowan, Harvey Stanton ---------- Cleveland, Ohio
Dash, Ardeneze ---------- New York, N. Y.
Donawa, Arnold Bennett ---------- Port of Spain, Trinidad
Fairclough, George Ellis ---------- Colon, Panama
Fairclough, Lewis Hyman ---------- Colon, Panama
Gordon Rudolph Nathaniel ---------- Panama, R. P.
Grant, Benjamin ---------- Morristown, Pa.
Hamlett, Horace Irwin Taylor ---------- Colon, Panama
Harris, Albert Robinson ---------- Sewickly, Pa.
Hill, Pervious William ---------- Yazoo City, Miss.
Jackson, Raymond Lee ---------- Lexington, Va.
Johnson, Albert Panama ---------- Panama, R. P.
Johnson, Joseph Alfred ---------- Portsmouth, Va.
Lee, Roscoe Franklin ---------- Washington, D. C.

McTeer, Essie Benjamin ---------- Orangeburg, S. C.
Reeves, Edwina Mae ---------- Suffolk, Va.
Roach, Charles Archibald ------ St. Augustine, St. Georges, B. W. I.
Russell, Aaron Stanislaus ---------- Washington, D. C.
Russell, Pinckney Warren, Jr., A. B., Biddle ----- Charlotte, N. C.
Segue, Taylor ---------- New Orleans, La.
Taylor, James Harvey ---------- Lexington, Ky.
Thomas, Gilbert Newton ---------- Jamaica, B. W. I.
Thornton, Alvin Geoverton ---------- Washington, D. C.
Tillis, William Benjamin ---------- Arcadia, Fla.
Verdun, Lionel Maurice ---------- Verdunville, La.
Williams, Ferdinand DeLeon ---------- New York, N. Y.

Third Year Dental Class

Becks, Godfrey Gerald ---------- Staunton, Va.
Berry, Leon Austin ---------- Conowingo, Md.
Byrd, Claud Otis, B. S., Alcorn ---------- Battle Creek, Mich.
Carr, John Calvin, Phar. D., Howard ---------- Salisbury, N. C.
Cooper, William Marion ---------- New York, N. Y.
Edwards, Elmer Dewey ---------- Washington, D. C.
Ghan, Glodie Winston ---------- Bloomington, Ind.
Gray, Clarence Colder ---------- Washington, D. C.
Gunthorpe, Uriel Sigismund ---------- New Rochelle, N. Y.
Hart, William Henry ---------- Evansville, Ind.
Howe, Lawrence Rogers ---------- Wilmington, N. C.
Hubbard, James Madison ---------- Clinton, N. C.
*Jones, Harry Carl ---------- Muscotah, Kansas
Knox, Isaac Washington ---------- Emporia Kansas
Land, Alphonse Napoleon ---------- Norfolk, Va.
McGhee, Roy William ---------- Buckhannon, W. Va.
Martin, Branger ---------- Reserve, La.
Matthews, Reginald Daniel ---------- Washington, D. C.
Miller, Erma Barbara ---------- Paterson, N. J.
Morgan, James Christopher ---------- Jamaica, B. W. I.
Morton, Clifford Calmetti ---------- Steubenville, Ohio
Nicholson, Joseph Henry ---------- Jamaica, B. W. I.
Palmer, Otto Garnet ---------- Newark, N. J.
Perkins, Roscoe Lewis ---------- McDonald, W. Va.
Peyton, Robert Kenneth ---------- North Charleroi, Pa.
Rolerfort, Louis Preston ---------- Newark, N. J.
Roy, Charles Max ---------- Lafayette, La.
Russell, Field Sevelli, A. B., Biddle ---------- Charlotte, N. C.

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*Deceased

Savoy, Leonard Douglas ---------- Washington, D. C.
Sessoms, William Mason ---------- Nashville, N. C.
Shirley, Farnandis ---------- Birmingham, Ala.
Smith, Paul Lafayette ---------- Yonkers, N. Y.
Walker, Augustus Caesar ---------- Thomasville, Ga.
Wilkinson, Vernon Orville ---------- Fairbury, Neb.
Williams, Addie Beatrice ---------- Richmond, Va.
Williams, Worth Armistead, A. B., Biddle ---------- Charlotte, N. C.
Wilson, Harry Inge ---------- Danville, Va.
Wooton, Leigh Frederick ---------- Tallahassee, Fla.
Wyatt, Carey Thornton ---------- Gloucester, Va.

Fourth Year Dental Class

Berwick, Richard Newall ---------- Jamaica, B. W. I.
Bradley, Frank Ferrell ---------- Roxbury, Va.
Calloway, Golden McKinley ---------- Marysville, Ohio
Coleman, Nathaniel Henry ---------- Washington, D. C.
Coleman, William Perry, Ph. G., Shaw ---------- El Paso, Texas
Dickerson, Enoch Wright, Phar. D., Howard ---------- Baltimore, Md.
BuBissette, Hyacinthe Eustace ----------Jersey City, N. J.
Duhaney, Amy Elise ---------- Jamaica, B. W. I.
Foeman, Samuel Gary ---------- New Haven, Conn.
Fowlkes, Leslie Arthur ---------- Burkeville, Va.
Gibbs, Benjamin Disraeli ---------- Barbados, B. W. I.
Godden, Charles Samuel ---------- Jamaica, B. W. I.
Hillman, John Garrard ---------- Covington, Ky.
Hines, Ashley Austin, Jr. ---------- Washington, D. C.
Holmes, Clarence Fitzhugh, Jr., B. S., Howard ---------- Denver Colo.
Johnson, Herbert Sharpe, A. B., Biddle ---------- Columbia, S. C.
Johnson, Powell ---------- Dallas, Texas
Johnston, Joseph Edward ---------- Nashville, Tenn.
Kincaid, Leon ---------- Pittsburg, Pa.
Kirton, George Lyte ---------- Barbados, B. W. I.
Lennox, Troy William ---------- St. Louis, Mo.
Lewis, Huling Henry ---------- Charleston, W. Va.
Lynch, Lionel Robert ---------- Port of Spain, Trinidad, B. W. I.
Miller, Stephen Douglas ---------- Des Moines, Iowa
Moore, Clarence Victor ---------- Dayton, Ohio
Morrison, William Edward ---------- Everett, Mass.
Park, Stewart Culin, A. B., Lincoln ---------- Savannah, Ga.
Payne, Charles Benjamin ---------- Charleston, W. Va.
Picou, Alexander Reginald ---------- Trinidad, B. W. I.
Pollock, S. M. ---------- Mexia, Texas
Roberts, Howard Clairmonte ---------- Barbados, B. W. I.

Taylor, Robert Beecher, A. B., Union ---------- Richmond, Va.
Taylor, William Edward ---------- Washington, D. C.
Thompson, Aston Laws ---------- New York, N. Y.
Thompson, Robert Harry ---------- Westfield, N. J.
Wheeler, Herbert T. W. ---------- Dayton, Ohio
Young, Andrew Jackson ---------- Franklin, La.
Young, Isaac Henry, A. B., Morgan ---------- Philadelphia, Pa.

PHARMACEUTICAL COLLEGE

First Year Pharmacy Class

Armstrong, Weax Elmo ---------- Rocky Mount, N. C.
Beason, Cordelia Eloise ---------- Washington, D. C.
Boone, John Royal ---------- Washington, D. C.
Butler, Mabel Lenora ---------- Baltimore, Md.
Corom, Albert ---------- Washington, D. C.
Corom, Paul Hamilton ---------- Washington, D. C.
Costen, William Luzerne ---------- Waterbury, Conn.
Davis, George Walden ---------- Washington, D. C.
DePinna, Pedro Tavares ---------- New Bedford, Mass.
Gee, Katy Esther ---------- Washington, D. C.
Gibson, George Harold ---------- Delair, N. J.
Henderson, Douglas J. ---------- Okmulgee, Okla.
Hughes, Leonard Sherman ---------- Claremont, W. Va.
Johnson, Lonnie ---------- Weeksville, N. C.
Jones, James Alonzo ---------- Washington, D. C.
Jones, Lorraine Enjah ---------- Leeds, S. C.
Knox, Samuel Luckey, A. B., Livingstone ---------- Salisbury, N. C.
McNorton, Gaston E. ---------- Cincinnati, O.
Mallory, Sadie D. ---------- Locust Dale, Va.
Mason, Eric P. ---------- Giddings, Texas
Nance, Willa Belle ---------- Madisonville, Ky.
Nixon, Theodore Fenderson ---------- Philadelphia, Pa.
Parker, Creed Winston ---------- Washington, D. C.
Pomare, Barsabas ---------- San Andres, Colombia, S. A.
Smith, Russell H. ---------- Lunenburg Court House, Va.
Stewart, Joseph Willie ---------- Marlin, Texas
Sumner, Marvin Stanton ---------- Salisbury N. C.
Thompson, Robert Levi ---------- Annissville, Va.
Thompson, Ravenell ---------- Lynchburg, Va.
Wilson, Samuel Henry ---------- Wilson, N. C.
Woods, William Guy ---------- Louisville, Ky.
Woodyard, Rachel Lillian ---------- Pittsburgh, Pa.

Second Year Pharmacy Class

Beckley, Clay Randolph ---------- Washington, D. C.
Carter, Clarence Ashton ---------- Washington, D. C.
Dickson, Jesse Edgar ---------- Wheeling, W. Va.
Knox, Samuel Lucky, A. B., Livingstone ---------- Salisbury, N. C.
Fennell, Theresa Irene ---------- Baltimore, Md.
Sampson, Antoinette Josephine ---------- Washington, D. C.
Scott, Monroe ---------- Baltimore, Md.
Villate, Edmond ---------- Caye, Haiti

Third Year Pharmacy Class

Garrett, York David ---------- Tarboro, N. C.
Green, Burrell Harrison ---------- Oak City, N. C.
Harris, William Percival ---------- Athens, Ga.
Mosley, George Spellman ---------- Bellfonte, Pa.
Smith, Richard Allyn ---------- Troy, Pa.
Smyre, Robert Walton ---------- Newton, N. C.
Snowden, Ernest Otto ---------- Rosslyn, Va.
Watson, Charles Irving ---------- Monroe, N. C.
Woods, Eldridge Garrett ---------- San Antonio, Texas

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